OFDM MODULATION METHOD, OFDM DEMODULATION METHOD OFDM MODULATOR AND OFDM DEMODULATOR

Publication number: JP7226724 (A)
Publication date: 1995-08-22
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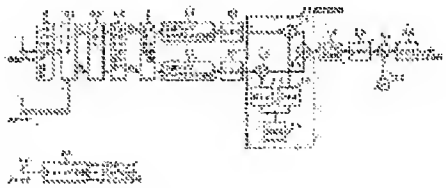
Classification:
- international: ***H04L27/36; H04J1/00; H04J11/00; H04L27/38;*** **H04L27/34; H04J1/00; H04J11/00; H04L27/38;** (IPC1-7): H04J11/00; H04J1/00; H04L27/36; H04L27/38
- European:
Application number: JP19940018003 19940215
Priority number(s): JP19940018003 19940215

Abstract of **JP 7226724 (A)**

PURPOSE:To reduce the circuit scale of LPFs by allowing the modulator to adopt the LPFs whose characteristic is not sharp. CONSTITUTION:A memory 62 provides the output of N-sets of information symbol data including guard band use 0 symbol data and N-sets of 0 symbol data. A 2N point IFFT circuit 63 generates an OFDM (orthogonal frequency division multiplex modulation) modulated wave through IFFT processing at a sampling frequency 2fs. While the sampling frequency of the OFDM modulated wave is 2fs, a band corresponding to N-sets of symbol data is fs, then a pitch of a loopback spectrums is spread twice in comparison with a conventional method. After the sampling frequency of the OFDM modulated wave is converted into 4fs double sampling circuits 64, 65, the resulting wave is subjected to band limit by LPFs 66, 67 and the result is subjected to orthogonal modulation at an orthogonal modulator 12 by using a carrier whose frequency is fs. Since the pitch of the spectrums of the OFDM modulated wave is widened, the LPFs 66, 67 whose characteristic is not sharp are adopted.



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